A(3-A4A, 12-R1A) L(2-D3) VINO/97.07.28 *RU 2103242-C1 A93 L02 VINOGRADOV A A 98-435420/37

Expanded concrete made using magnesia binder - includes nonionic powdered waste from magnesite firing, 97.07.28 97RU-112152 (98.01.27) C04B 38/10

C98-132203 Addnl. Data:

surfactant and methyl:cellulose as foam stabiliser

activated

VINOGRADOV A A, VORONIN V N, MYAKISHEV A N

methyl cellulose as foam stabiliser, at ratio (parts per weight): (II) 100, at 400-420°C, or additional milling to specific surface $0.44-0.46 \text{ m}^2/\text{g}$. 0.11-1.2, and methyl cellulose 0.11-1.2. (II) is activated by calcining Concrete, including caustic magnesite, magnesium chloride solution, stabiliser, contains activated powdered waste from magnesite firing (II) as caustic magnesite, nonionic surfactant as foaming agent, and (I) 5-25, magnesium chloride solution 66-144, nonionic surfactant (I) is preferably treated with magnesium chloride solution and has specific surface 0.34-0.35 m²/g. Magnesium chloride solution has density 1200 kg/m³, and wallpaper glue can be used as methyl fine-ground ceramic brickwaste (I), foaming agent and foam cellulose

USE

In building industry, namely in production of expanded concrete.

CLAIMED

19-21, and left at 105-120°C to constant weight. Density of concrete is magnesium chloride solution, mineralising foam, forming articles and mixed with remaining part of magnesium chloride solution and left to (parts per wt.): (I) 100, magnesium chloride solution 11-13 and water stand, (II) is activated as described above, and foam is mineralised by mixing with remaining components, at ratio as quoted above. (II) and magnesium chloride solution, and the latter is mixed with (I) at ratio egulated by adjusting foam! ing or by changing ratio of magnesium mixing, and expanded concrete is obtained in mixer-foam generator (I) are added to foam, in sequence, over 2-3 minutes, with constant used to make foam. Foam is made using 1/6-1/3 of total volume of Also claimed is a method of production of expanded concrete, leaving to stand. Foam is made by mixing surfactant with methyl cellulose stabiliser, in part of magnesium chloride solution, (I) is including making foam, preparation of (I) and (II), preparing

RU 2103242-C+

chloride solution used in foam-making and mixing with (I) and (II). After 7 days formed articles are immersed in water for 1-3 days and dried at 120°C. (SN) (10pp2269DwgNo.0/0)